WHAT IS CLAIMED IS:

25

- 1. An autothermal aerobic digestion system having closed defoaming system, the digestion system comprising:
- a digester having a corn shaped bottom and an upper lid, the digester being of an insulator;
 - a suction valve installed at a bottom of the digester, for discharging wastewater;
- at least two nipples dispersedly installed at an inner 10 side of the digester, for returning the wastewater from the suction valve to the digester for recycling;
 - a pump for providing a power for recycling the wastewater through the nipples;
- an aeration venturi and a defoamer venturi connected to the discharging nipples for aeration and defoaming during the recycling of the wastewater;
 - a liquid defoaming apparatus or a mechanical defoaming apparatus installed at an upper side of the digester, for primarily getting rid of foam generated in the wastewater;
- a first foam sensor installed at a predetermined level of the inner side of the digester, for driving the defoaming apparatus when the foam contacts the first foam sensor;
 - a second foam sensor installed at a level higher than the first sensor, for stopping operation of the defaming apparatus when the foam contacts the second foam sensor;

- a foam bypass having a passage connected to the second foam sensor, for bypassing the foam when the foam contacts the second foam sensor and having a passage connected to the defoamer venturi;
- a hose for making extra foam overflow therethrough when the defoamer venturi cannot process all of the foams; and
 - a foam collector pipe connected to the hose and connected to the aeration venturi for returning the foam to the digester.
- 10 2. The autothermal aerobic digestion system of claim 1, wherein the aeration venturi comprises:
 - a liquid inlet;
 - an air intake;
 - an outlet of an air containing liquid; and
- 15 an aeration fitting valve.
 - 3. The autothermal aerobic digestion system of claim 1, wherein the defoamer venturi comprises:
 - a liquid inlet;
- 20 an air intake;
 - an outlet of an air containing liquid;
 - an aeration fitting valve; and
 - a foam outlet connected the hose.